



Patent Application
Attorney Docket No. PC23031A

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By

Janice Denison
(Signature of person mailing)
Janice Denison
(Typed or printed name of person)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Mark Ammirati, et al. :

APPLICATION NO.: 10/688,167 : Examiner: To be assigned

FILING DATE: 10/17/2003 : Group Art Unit: To be assigned

TITLE: CRYSTAL STRUCTURE OF :
STAPHYLOCOCCUS UNDECAPRENYL
PYROPHOSPHATE SYNTHASE AND USES
THEREOF

Hon. Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97 ET SEQ.

Applicant(s) herein make(s) available to the U.S. Patent and Trademark Office a copy of PTO-FB-A820 which lists the references cited by the applicant(s), copies of which are enclosed.

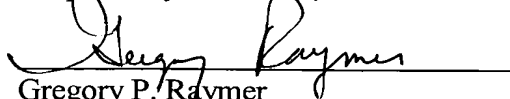
The Examiner is requested to consider carefully the complete text of these references in connection with the examination of the above-identified application in accord with 37 C.F.R. § 1.104(a). It is believed the Examiner will concur with applicant's belief that the subject matter presently claimed is neither anticipated nor rendered obvious by the foregoing references.

It is requested that the references listed on the attached form PTO-FB-A820 be included in the "References Cited" portion of any patent issuing from this application (M.P.E.P. § 1302.12).

A prompt and favorable response is earnestly solicited.

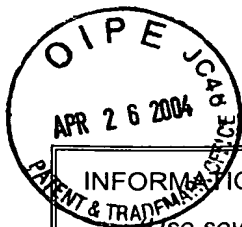
Date: 4/20/04

Respectfully submitted,



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INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				ATTY. DOCKET NO. PC23031A				SERIAL NO. 10/688,167						
				APPLICANT Mark Ammirati										
				FILING DATE 10/17/2003				GROUP						
U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	US	6	2	8	7	8	1	0	09/11/01	Huang, et al.	C12N	69.1		
FOREIGN PATENT DOCUMENTS														
DOCUMENT NUMBER								DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
												YES	NO	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)														
		Apfel, C., et al., <i>To identify bacterial undecaprenyl pyrophosphate synthetase: cloning, expression, and characterization of the essential uppS gene</i> , J. of Bacteriology, Vol. 181(2): 483-492, 1999												
		Baba, T., et al., <i>Genome and virulence determinants of high virulence community-acquired MRSS</i> , The Lancet, Vol. 359: 1819-27, 2002												
		Chang, S., et al., <i>Catalytic mechanism revealed by the crystal structure of undecaprenyl pyrophosphate synthase in complex with sulfate, magnesium, and triton</i> , J. Biol. Chem., Vol. 278(81): 29298-29307, 2003												
		Chen YH, et al., <i>Probing the conformational change of Escherichia coli undecaprenyl pyrophosphate synthase during catalysis using an inhibitor and tryptophan mutants</i> , J. Biol. Chem., Vol. 277(9): 7369-7376, 2002												
		Database EMBL 'Online' Accession No. Q8NWZ5 XP002269813, 2002												
		Fujihashi, M., et al., <i>Crystal structure of cis-prenyl chain elongating enzyme, undecaprenyl diphosphate synthase</i> , PNAS, Vol. 98(8): 4337 - 4342, 2001												
		Ko, T., et al., <i>Mechanism of Product Chain Length Determination and the Role of a Flexible Loop in E. coli Undecaprenyl-pyrophosphate Synthase Catalysis</i> , J. Biol. Chem., Vol. 276(50): 47474 - 47482, 2001												
		Ohnuma, S., et al., <i>Kinetic studies on the prenyl chain elongation by undecaprenyl pyrophosphate synthase with artificial substrate homologues</i> , FEBS Let, Vol. 257(1): 71 - 74, 1989												
EXAMINER						DATE CONSIDERED								
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.														